

Fig. 1

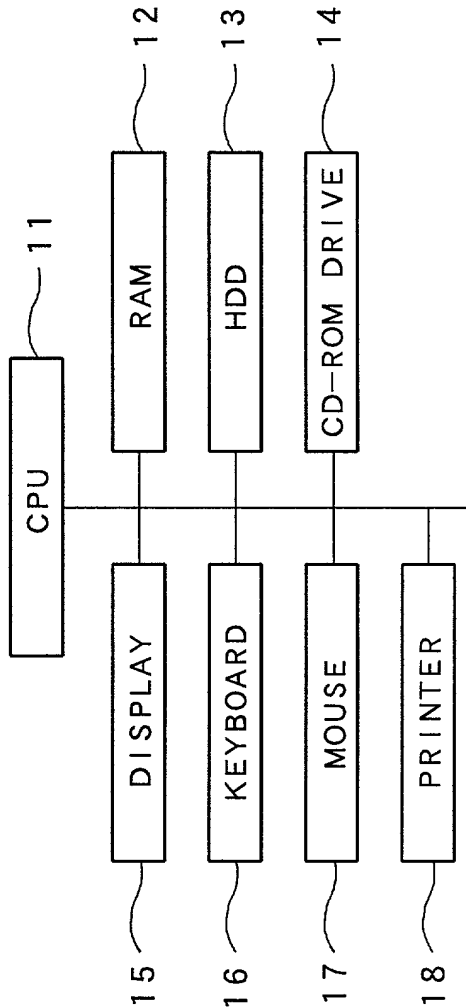


Fig. 2

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    //initialize variavle
    int c,nl;
    nl=0;
    //count number of lines till EOF is detected
    while ( (c=getchar()) !=EOF)
        if (c=='\n')
            ++nl;
    //display line count on screen
    printf ("%d\n", nl);
    return nl;
}
```

Fig. 3

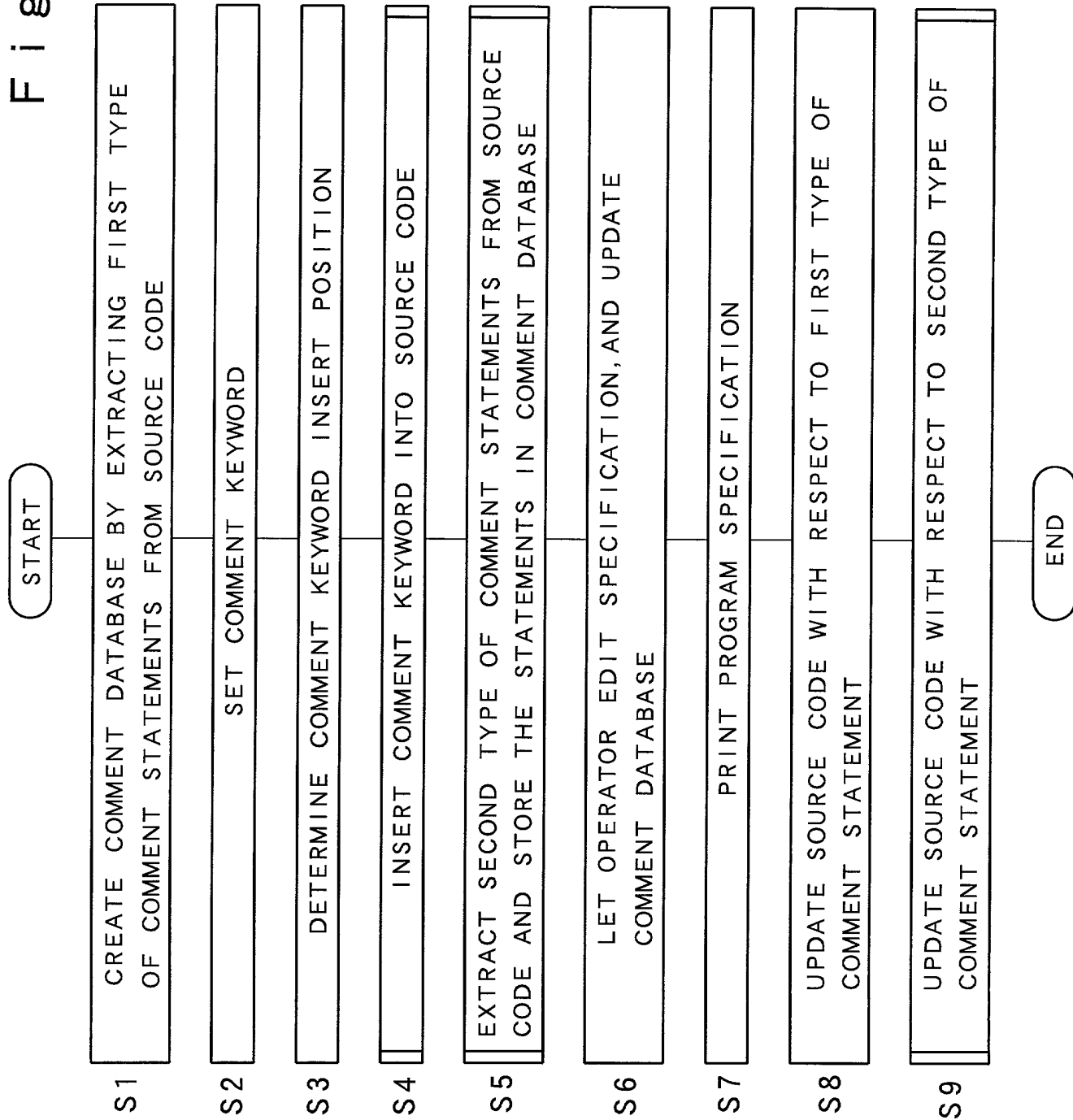


Fig. 4

IDENTIFIER	COMMENT ITEM	COMMENT
get line	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	

Fig. 5

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X

☒ Extract Comment in Function (P)

OK

Cancel

Option

Definition of Comment Item

Function (F):

Functional Explanation

Member Function (M):

Functional Explanation

Definition of Keyword

Head Keyword (K):

Invalid (A)

Enclosure Keyword (S):

Definition of Valid Column Position

Column Position (C):

1 - 999

21

22

Fig. 6

30

Comment Keyword Insert Position

☒ Insert Keyword Into Comment Line (C)

☐ Insert Keyword Into Indicated Position (P)

INSERT POSITION

☐ Consecutive Sequential Statements (S)

☐ Iteration, Selection Statement (D)

☐ Branch Statement (G)

OK

Cancel

Fig. 7

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //initialize variavle
    int c,nl;
    nl=0;
    // count number of lines till EOF is detected
    while ((c=getchar()) !=EOF)
        // check whether it is line feed signal or not
        if (c=='\n')
            // count number of lines in the case of line feed signal
            ++nl;
    // display line count on screen
    printf ("%d\n", nl);
    // return line count to caller
    return nl;
}
```

Fig. 8

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Comment Keyword Insert Position

☐ Insert Keyword Into Comment Line (C)

☒ Insert Keyword Into Indicated Position (P)

INSERT POSITION

☒ Consecutive Sequential Statements (S)

☒ Iteration, Selection Statement (D)

☒ Branch Statement (G)

OK

Cancel



Fig. 9

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    int c, nl;
    nl=0;
    while (c=getchar() !=EOF)
        if (c=='\n')
            ++nl;
    printf ("%d\n", nl);
    return nl;
}
```

Fig. 10

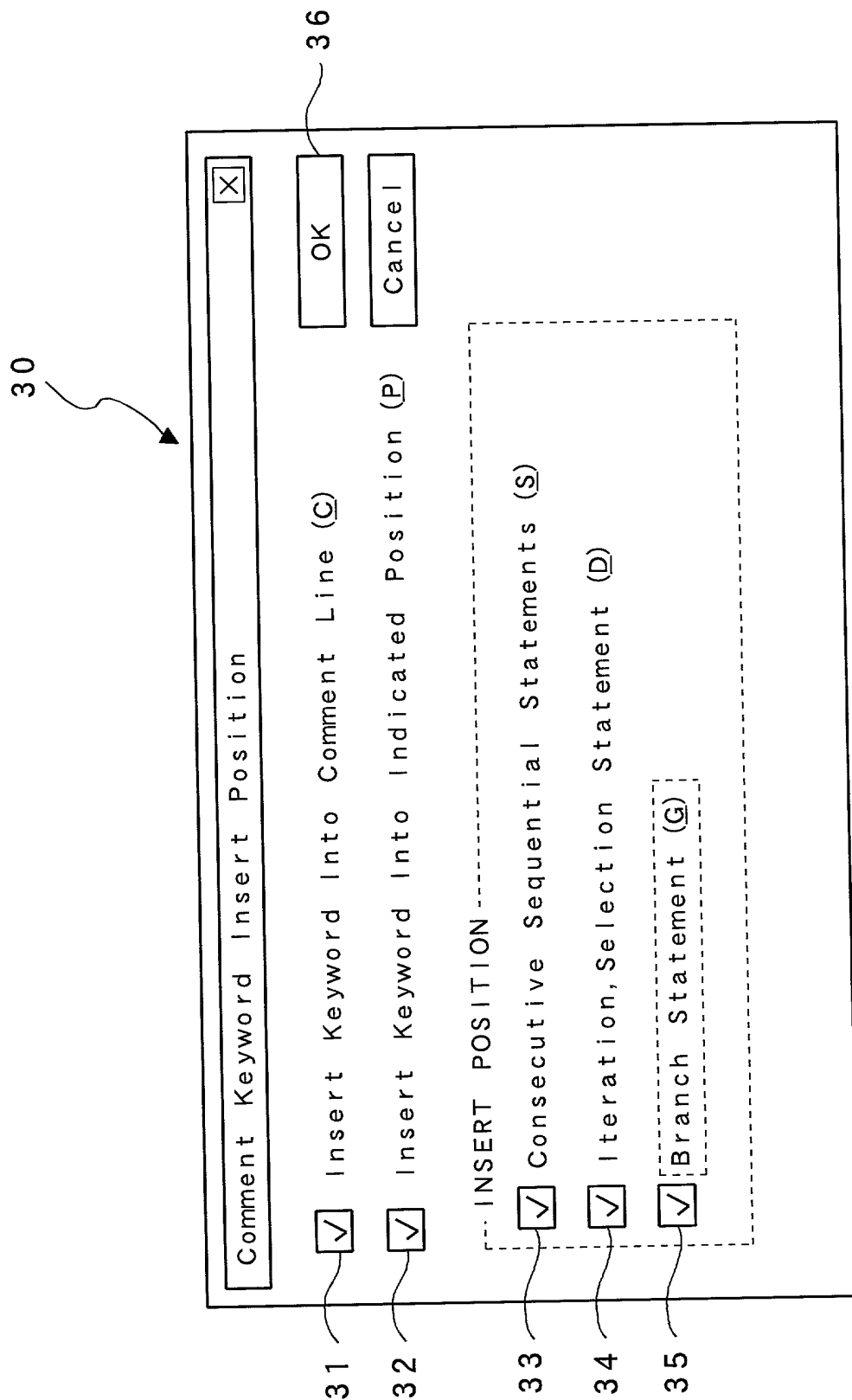


Fig. 11

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //1 initialize variavle
    int c, nl;
    nl=0;
    //2 count number of lines till EOF is detected
    while ( (c=getchar ()) !=EOF)
        //2.1 check whether it is line feed signal or not
        if (c=='\n')
            //2.1.1 count number of lines in the case of line feed signal
            ++nl;
    //3 display line count on screen
    printf ("%d\n", nl);
    //4 return line count to caller
    return nl;
}
```

Fig. 12

```
//outline
//  obtain line count of file
//  return value
//  line count of file
//  explanation of parameter
//  nothing
int getline()
{
    //1
    int c,nl;
    nl=0;
    //2
    while ((c=getchar()) !=EOF)
        //2.1
        if (c=='\n')
            //2.1.1
            ++nl;
    //3
    printf ("%d\n", nl);
    //4
    return nl;
}
```

# Fig. 13

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //1 initialize variavle
    int c, nl;
    nl=0;
    //2 count number of lines till EOF is detected
    while ((c=getchar()) !=EOF)
        //2.1
        if (c=='\n')
            //2.1.1
            ++nl;
    //3 display line count on screen
    printf ("%d\n", nl);
    //4
    return nl;
}
```

Fig. 14

IDENTIFIER	COMMENT ITEM	COMMENT
getline	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	1) initialize variable
		2) count number of lines till EOF is detected
		2. 1)
		2. 1. 1)
		3) display line count on screen
		4)

Fig. 15

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Edit Screen

Explanation of getline Function

Name of Function	getline		
Definition File	Main.cpp	Definition Line Number	109

Declaration Format

int getline ( )

Outline

obtain line count of file

Return Value

line count of file

Explanation of Parameter

nothing

Functional Explanation

1) initialize variable  
2) count number of lines till EOF is detected  
2. 1)  
2. 1. 1)  
3) display line count on screen  
4)

41

42

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Edit Screen		X	
Explanation of getline Function			
Name of Function	getline		
Definition File	Main.cpp	Definition Line Number	109
Declaration Format			
int getline ( )			
Outline			
obtain line count of file			
Return Value			
line count of file			
Explanation of Parameter			
nothing			
Functional Explanation			
1) initialize variable 2) count number of lines till EOF is detected 2. 1) check whether it is line feed signal or not 2. 1. 1) count number of lines in the case of line feed signal 3) display line count on screen 4) return line count to caller			



Fig. 17

IDENTIFIER	COMMENT ITEM	COMMENT
getline	OUTLINE	obtain line count of file
	RETURN VALUE	line count of file
	EXPLANATION OF PARAMETER	nothing
	FUNCTIONAL EXPLANATION	<p>1) initialize variable</p> <p>2) count number of lines till EOF is detected</p> <p>2. 1) check whether it is line feed signal or not</p> <p>2. 1. 1) count number of lines in the case of line feed signal</p> <p>3) display line count on screen</p> <p>4) return line count to caller</p>

Fig. 18

```
//outline
// obtain line count of file
// return value
// line count of file
// explanation of parameter
// nothing
int getline ()
{
    //1) initialize variable
    int c, nl;
    nl=0;
    //2) count number of lines till EOF is detected
    while (c=getchar ()) !=EOF)
        //2.1) check whether it is line feed signal or not
        if (c=='\n')
            //2.1.1) count number of lines in the case of line feed signal
            ++nl;
    //3) display line count on screen
    printf ("%d\n", nl);
    //4) return line count to caller
    return nl;
}
```

Fig. 19

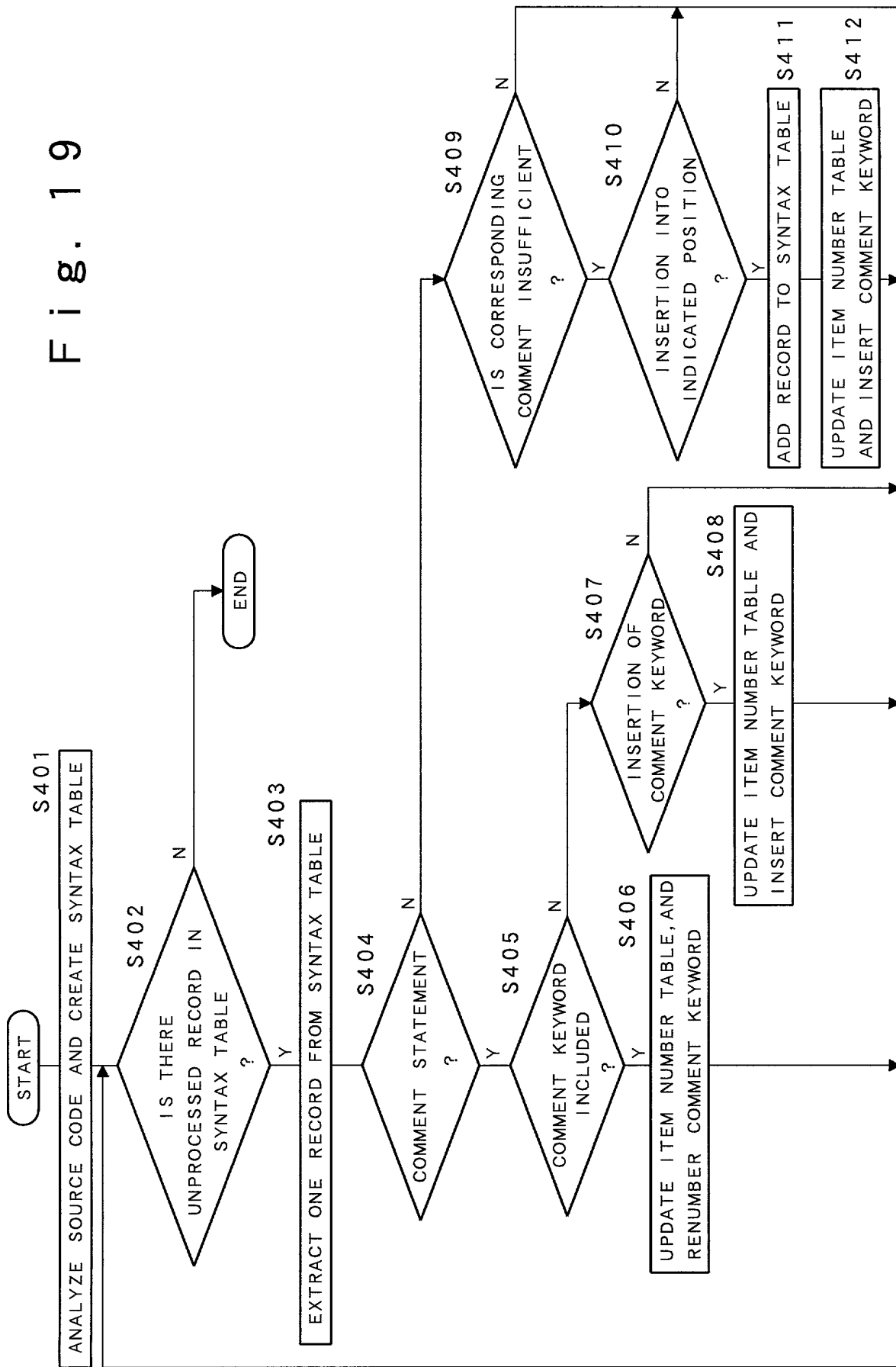




Fig. 21

STATEMENT CATEGORY	NEST NUMBER	STATEMENT
COMMENT STATEMENT	1	//1) initialize variable
SEQUENTIAL STATEMENT	1	int c, nl;
SEQUENTIAL STATEMENT	1	nl=0;
COMMENT STATEMENT	1	//2) count number of lines till EOF is detected
ITERATION STATEMENT	2	while ((c=getchar()) != EOF)
COMMENT STATEMENT	2	//2.1)
SELECTION STATEMENT	3	if (c=='\n')
COMMENT STATEMENT	3	//2.1. 1)
SEQUENTIAL STATEMENT	3	++nl;
COMMENT STATEMENT	1	//3) display line count on screen
SEQUENTIAL STATEMENT	1	printf ("%d\n", nl);
COMMENT STATEMENT	1	//4)
BRANCH STATEMENT	1	return nl;



Fig. 23

STATEMENT CATEGORY	NEST NUMBER	STATEMENT
COMMENT STATEMENT	1	//2) initialize variable
SEQUENTIAL STATEMENT	1	int c, nl;
SEQUENTIAL STATEMENT	1	nl=0;
COMMENT STATEMENT	1	//3) count number of lines till EOF is detected
ITERATION STATEMENT	2	while ( (c=getchar()) !=EOF)
SELECTION STATEMENT	3	if (c=='\n')
SEQUENTIAL STATEMENT	3	++nl;
COMMENT STATEMENT	1	//6) display line count on screen
SEQUENTIAL STATEMENT	1	printf ("%d\n", nl);
BRANCH STATEMENT	1	return nl;

Fig. 24

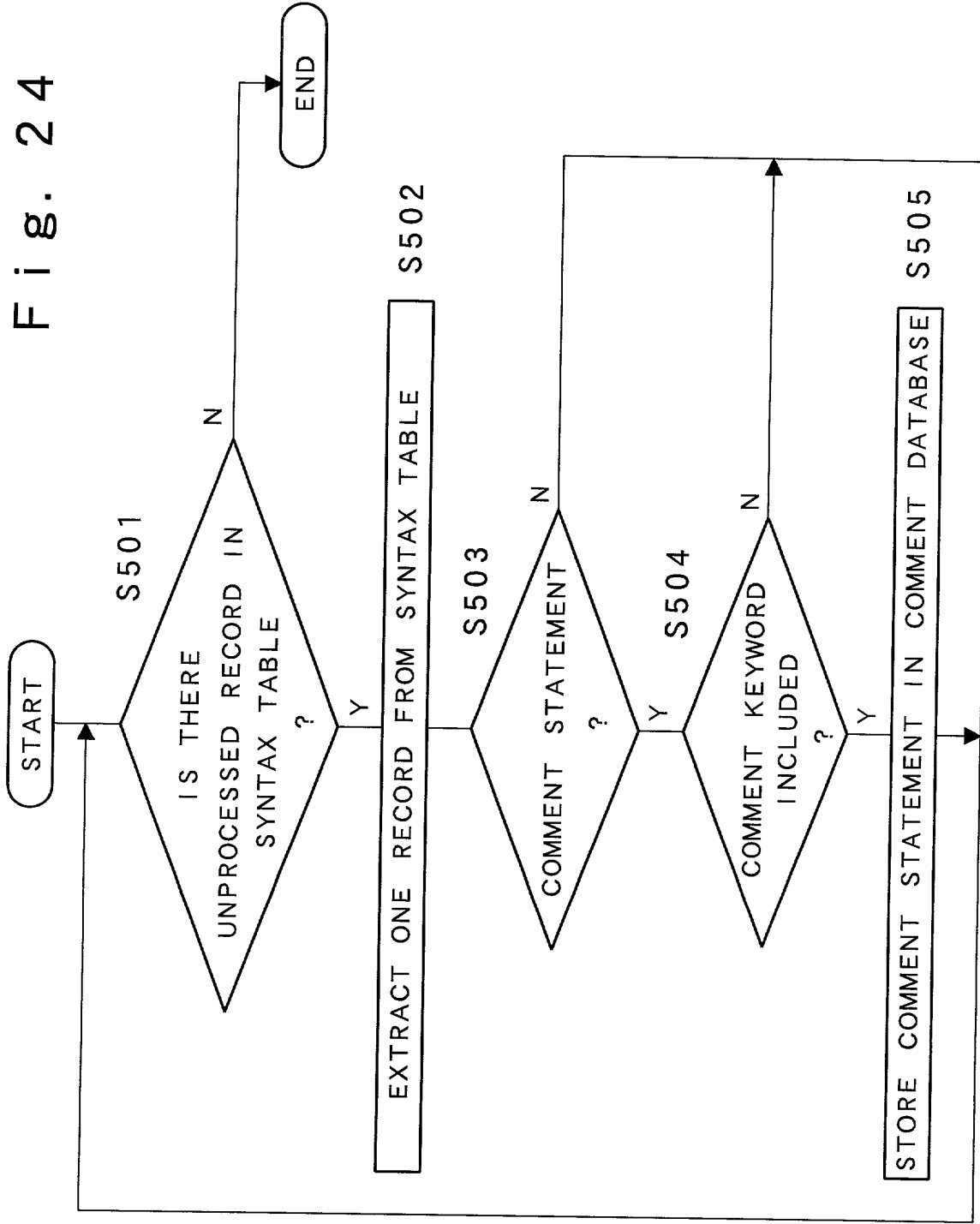




Fig. 25

